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(3) 57
(4) 92

HISTORY
DECLARATIONS
OTSSCVTPG_R9

; Detailed Current Edit History

```

0000 1      .TITLE  OTSSCVTPG_R9      Convert Packed to G floating
0000 2      .IDENT  /1-001/           ; File: OTSCVTPG.MAR Edit: PLL1001
0000 3
0000 4
0000 5 *****
0000 6 *****
0000 7      *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0000 17
0000 18      *  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000 19      *  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0000 20      *  CORPORATION.
0000 21
0000 22      *  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 23      *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 24
0000 25 *****
0000 26 *****
0000 27
0000 28      FACILITY: LANGUAGE INDEPENDENT SUPPORT
0000 29      ++
0000 30      ABSTRACT:
0000 31      This module contains the routine that converts packed numbers
0000 32      to g floating.
0000 33
0000 34
0000 35      --
0000 36
0000 37      VERSION: 1
0000 38
0000 39      HISTORY:
0000 40
0000 41      AUTHOR:
0000 42      Pamela Levesque, 18-Jan-1982
0000 43
0000 44      MODIFIED BY:
0000 45
0000 46
0000 47

```


OTSSCVTPG_R9
1-001

Convert Packed to G floating 1 2 16-SEP-1984 00:26:00 VAX/VMS Macro V04-00
HISTORY ; Detailed Current Edit History 6-SEP-1984 11:13:20 [LIBRTL.SRC]OTSCVTPG.MAR;1 Page (2)

0000 49 .SBTTL HISTORY ; Detailed Current Edit History
0000 50
0000 51
0000 52 : Edit History for Version 1 of OTSCVTPG
0000 53 :
0000 54 : 1-001 - Original. PLL 18-Jan-1982
0000 55

```

0000 57      .SBTTL  DECLARATIONS
0000 58
0000 59 :
0000 60 : INCLUDE FILES:
0000 61 :
0000 62      $DSCDEF
0000 63
0000 64 :
0000 65 : EXTERNAL SYMBOLS:
0000 66      .DSABL  GBL      ; Prevent undeclared symbols from being
0000 67                          ; automatically global
0000 68
0000 69      .EXTRN  OTSS$CVT_T_G ; D, E, F, G Conversion routine
0000 70 :
0000 71 :
0000 72 :
0000 73 : MACROS:
0000 74 :     NONE
0000 75 :
0000 76 :
0000 77 :
0000 78 : PSECT DECLARATIONS:
0000 79      .PSECT  _OTSS$CODE      PIC, SHR, LONG, EXE, NOWRT,-
0000 80                          USR, CON, REL, LCL, RD
0000 81
0000 82 :
0000 83 : EQUATED SYMBOLS:
0000 84 :     NONE
0000 85 :
0000 86 :
0000 87 :
0000 88 : OWN STORAGE:
0000 89 :     NONE
0000 90 :

```



```

0000 92      .SBTTL OTSSCVTPG_R9
0000 93
0000 94      ++
0000 95      FUNCTIONAL DESCRIPTION:
0000 96
0000 97      Converts packed numbers to g floating.
0000 98
0000 99      CALLING SEQUENCE:
0000 100
0000 101      JSB OTSSCVTPG_R9 (scale.rl.v, srclen.rl.v, src.rp.r, dst.wg.r)
0000 102
0000 103      Arguments are passed in R6, R7, R8 and R9.
0000 104
0000 105      INPUT PARAMETERS:
0000 106
0000 107      SCALE.rl.v      The power of ten by which the internal
0000 108                      representation of the source must be
0000 109                      multiplied to scale the same as the
0000 110                      internal representation of the dest.
0000 111      SRCLEN.rl.v      The number of digits in the source
0000 112      SRC.rp.r          The number to be converted
0000 113
0000 114      IMPLICIT INPUTS:
0000 115
0000 116      All of the trap bits in the PSL are assumed off.
0000 117
0000 118      OUTPUT PARAMETERS:
0000 119
0000 120      DST.wg.r          The place to store the converted number
0000 121
0000 122      IMPLICIT OUTPUTS:
0000 123
0000 124      NONE
0000 125
0000 126      FUNCTION VALUE:
0000 127
0000 128      1 = SUCCESS, 0 = FAILURE
0000 129
0000 130      SIDE EFFECTS:
0000 131
0000 132      Destroys registers R0 through R9.
0000 133
0000 134      --
0000 135
0000 136
0000 137 OTSSCVTPG_R9::
0000 138      SUBL2 #40,SP      ; Space for temp string and result
0000 139      CVTPS R7,(R8),#31,8(SP) ; Make a separate sign string
0000 140
0000 141      ; Make a descriptor for the leading separate string.
0000 142
0000 143      PUSHL R3          ; Address = temp string
0000 144      MOVB #DSC$K_CLASS_S,-(SP) ; Class = static
0000 145      MOVB #DSC$K_DTYPE_T,-(SP) ; Data type = ASCII text
0000 146      MOVW #32,-(SP)    ; Length = 32 bytes
0000 147
0000 148      ; Now call the conversion routine.

```

```

08 AE 1F 5E 28 C2
68 57 08
53 DD
7E 01 90
7E 0E 90
7E 20 B0

```

```

      7E 56 CE 0014 149 ;
      00 DD 0014 150 ;
      10 AE 9F 0017 151 ;
      0C AE 9F 0019 152 ;
00000000'GF 04 FB 001C 153 ;
      0C 50 E9 001F 154 ;
      69 08 AE 50FD 0026 155 ;
      50 01 D0 0029 156 ;
      5E 30 C0 002E 157 ;
      05 0031 158 1$:
      0034 159 ;
      0035 160 ;
      0035 161 ; Come here on overflow to store the reserved operand.
      0035 162 ;
      69 01 0F 79 0035 163 2$:
      50 D4 0039 164 ;
      F4 11 003B 165 ;
      003D 166 ;
      003D 167 ;
      MNEGL R6,-(SP) ; Scale factor
      PUSHL #0 ; Digits in fraction
      PUSHAB 16(SP) ; Address of result area
      PUSHAB 12(SP) ; Address of descriptor
      CALLS #4,G^OTSSCVT_T_G ; Call the routine
      BLBC R0,2$ ; Failure, must be overflow
      MOVG 8(SP),(R9) ; Store result
      MOVL #1,R0 ; Indicate success
      ADDL2 #48,SP ; Delete stack temps
      RSB ; Return

      ASHQ #15,#1,(R9) ; Store reserved operand
      CLRL R0 ; Indicate failure
      BRB 1$ ; Delete stack temps and return

      .END

```


OTSSCVTPG_R9
Symbol table

Convert Packed to G floating

M 2

16-SEP-1984 00:26:00
6-SEP-1984 11:13:20

VAX/VMS Macro V04-00
[LIBRTL.SRC]OTSCVTPG.MAR;1

Page 6
(4)

DSC\$K_CLASS_S
DSC\$K_DTYPE-T
OTSSCVTPG_R9
OTSSCVT_T-G

= 00000001
= 0000000E
00000000 RG 02
***** X 00

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes
ABS	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
_OTSSCODE	0000003D (61.)	02 (2.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC LONG

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.05	00:00:00.96
Command processing	110	00:00:00.33	00:00:03.29
Pass 1	132	00:00:01.14	00:00:05.50
Symbol table sort	0	00:00:00.09	00:00:00.10
Pass 2	42	00:00:00.29	00:00:01.27
Symbol table output	2	00:00:00.01	00:00:00.01
Psect synopsis output	2	00:00:00.01	00:00:00.01
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	320	00:00:01.92	00:00:11.14

The working set limit was 1050 pages.
8057 bytes (16 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 133 non-local and 2 local symbols.
167 source lines were read in Pass 1, producing 10 object records in Pass 2.
8 pages of virtual memory were used to define 7 macros.

! Macro library statistics !

Macro library name	Macros defined
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	4

190 GETS were required to define 4 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$:OTSCVTPG/OBJ=OBJ\$:OTSCVTPG MSRC\$:OTSCVTPG/UPDATE=(ENH\$:OTSCVTPG)

0212 AH-BT13A-SE
VAX/VMS V4.0

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